

INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/GB2004/001281

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B47/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 906 434 A (LAMEL ARTHUR E ET AL) 16 September 1975 (1975-09-16) column 1, lines 12-14,26,27,32; figures 10-12,14 column 2, lines 19,20 column 3, lines 7-15,47-52 column 6, lines 32-34 column 11, line 65 - column 12, lines 2,42-48 column 13, lines 29,30 column 14, lines 4-9	1-5, 14-17, 21,26,27
X	US 2003/015319 A1 (GREEN ROBERT R ET AL) 23 January 2003 (2003-01-23) paragraphs '0067!, '0069!, '0071!, '0072!, '0078!, '0079!, '0101!, '0126!, '0183!; figures 2-4,14,15,23	1,6,7, 10-18, 21,26-28

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

*** Special categories of cited documents:**

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

28 June 2004

Date of mailing of the international search report

06/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Georgescu, M

INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/GB2004/001281

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3906434	A	16-09-1975	US 4001773 A	04-01-1977
			US 3790930 A	05-02-1974
			US 3906435 A	16-09-1975
			US 3900827 A	19-08-1975
US 2003015319	A1	23-01-2003	US 2001043509 A1	22-11-2001
			US 5995449 A	30-11-1999
			US 6310829 B1	30-10-2001
			GB 2348029 A ,B	20-09-2000
			GB 2348030 A ,B	20-09-2000
			GB 2322953 A ,B	09-09-1998
			NO 981740 A	17-06-1998
			WO 9714869 A1	24-04-1997